TECHNOZOLA SCOOP

THE OFFICIAL NEWSLETTER OF THE DEPARTMENT OF CSE

Chairman message

Technozola monthly technical newsletter is particularly important as it encourages the students to share the knowledge they have acquired. Writing articles for the newsletter/magazine also improves the communication skills of the budding engineers. It is common knowledge that representation of an idea is as important as, if not more important, than the idea itself.

Director message

Technozola represents a cloud with a silver lining for the world of technology. It aims to inspire and nurture upcoming engineers to bring a revolution in this ever evolving world of technology. The magazine captures the current technological advancements. To conclude I would like to congratulate the faculty and the students of the editorial team on bringing out of Technozola newsletter. I am glad to see that they have lived up to the high standards they had set with this edition and my best wishes to the students for a bright future

Principal Message

Congratulations to the students and faculty associated to newsletter committee for successfully publishing the first issue of departmental technical newsletter. Technozola is creating platform which provides an opportunity to the students and staff to express their original thoughts on technical topics.

Chairman
Sri Sunkara Rambrahmam

Director
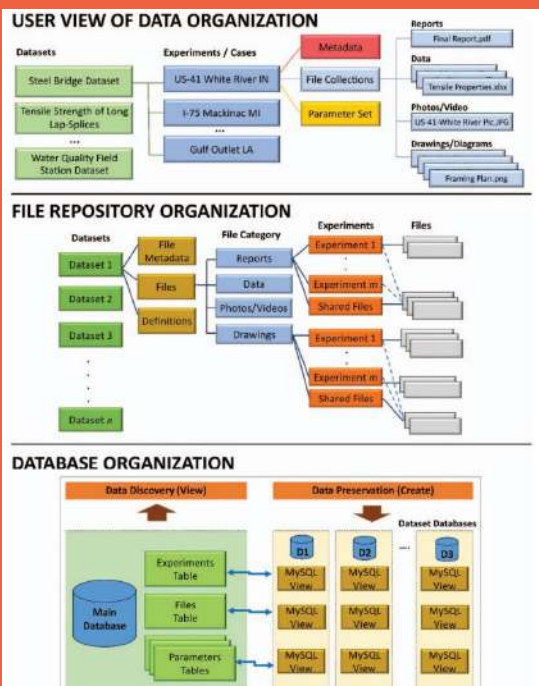**Dr.Kurra Rajasekhar Rao**

Principal
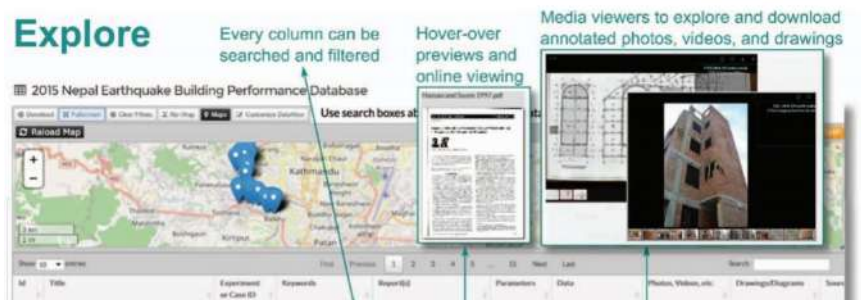**Dr. G V K S V Prasad, Principal**

ARTICLE

INTRODUCING DATABASE CENTER HUB

DATA ORGANIZATION

Scientists and researchers have a huge problem when it comes to accessing shared databases of research information—pure chaos.It's a mess of poorly-organized information that often must be downloaded to be examined or is hidden in zip files that can't even be searched.Fortunately, Purdue University and University of Nebraska researchers have developed a solution.It's called the DataCenter Hub—a massive repository that will house research data from countless disciplines, from the humanities to science to computers and engineering. Their primary goals are to make it comprehensive, seamless, and easy to search.

DATA HUB TRANSFORMATION

Data center transformation is the process of changing a data center to improve its overallfunctionality and performance. Some experts define and characterize data center transformation as large-scale programs of change that affect many of the key parts of data center use, including hardware setups,users and business processes

"DataCenterHub provides an alternative to existing discipline-neutral solutions, with the goal of helping as many researchers as possible classify and share their data and files for discovery and exploration. Nearly 50,000 experiments, 8,000,000 files, and 30 Tbytes of data have been contributed at DataCenterHub. Our extensible architecture allows new features to be added as needed, and our platform continues to evolve and adapt to an increasingly diverse community of users," the authors say.

One illustration of how the DataCenterHub works uses data from the Nepal earthquake of 2015. Below is an interface screenshot showing a variety of data sets included in one seamless visual that allows researchers to investigate infrastructureresilience and disaster preparedness.

ARTICLE

BITCOIN

Recently you Might Have seen news flashes that bitcoin users are saving passwords in DNA

But most of you didn`t got how it exactly done….Almost everyone knows that when data in broken down its nothing but combination of 0 and1s(binary form).Similarly DNA is made up of four letters A,T,G,C (nucleotides).

ATGC Stands for

A=adenine

T=thymine

G=guanine

C=cytosine

To translate binary to the language of DNA, you need to have a conversion system Let's say A=00,T=01,C=10,AND G=11.

In this example the string 11000101001000 would translate to GATTACA

DNA Is the building blocks of life here nothing is live.This is Synthetic DNA which can be produced in the lab.There are many methods but one of the most popular method is PCR

We can store anything in DNA like a word doc,an animated GIF ,an operating system etc.

DNA is more complicated than our "GATTACA" example

GATTACA

DNA LASTS FOR GENERATIONS AND LABS WILL ALWAYS HAVE THE TECHNOLOGY TO READ DNA

But the core idea is the same.so ,it becomes very difficult for hacker's to hack making it secure

At last I would like to say that Hard drive or hardware storage devices can store data for years whereas DNA can store for several generations.

Hence important data such as future projects,research works,confidential data are preffered to be stored in DNA

OUR STUDENTS SELECTED IN CAMPUS PLACEMENT

TCS SELECTED

ABC AND ETHNUS SELECTED

TECHNOZOLA NEWS

- ### LIST OF STUDENTS SELECTED IN CAMPUS PLACEMENT

S.NO	REG.NO	NAME	COMPANY
1	15NG1A05B4	VASAVYA MAHALAKSHMI VADLANI	ABC, ETHNUS, TCS
2	15NG1A05B5	SAIHARITHA VADUPU	ABC
3	15NG1A05A1	KUNDAN RAMINENI	ABC
4	15NG1A05B7	POOJA KRISHNA VANUKURU	ABC
5	15NG1A0569	POOJITHA ELURU	ETHNUS
6	16NG5A0504	PASAM PRATHYUSHA	ETHNUS
7	15NG1A0566	SRINIVASA RAO CHERKUMALLI	ETHNUS
8	15NG1A0562	NITYA SAHARSHA AKULA	ETHNUS
9	15NG1A0528	CHANDRA LEKHA KONGARA	ETHNUS
10	15NG1A0541	SAI VARSHITHA PALADUGU	ETHNUS
11	15NG1A05A8	PRADEEP TANGELLAMUDI	TCS
12	15NG1A0537	LAKSHMI PRASANNA NALLURI	TCS
13	15NG1A05B1	PAVANA LAKSHMI THOTA	TCS

ఉద్యోగాలకు ఎంపిక్రైన విద్యార్థులతో అధ్యాపక బృందం

క్యాంపస్ ఇంటర్వ్యూల్లో 13 మంది ఉషారామ విద్యార్థుల ఎంపిక

**DIGITIZATION OF THE FIRST NUMBER OF
ESTONIAN POPULAR SCIENCE MAGAZINE
HORISONT PUBLISHED IN JANUARY 1967.**

**LIST OF FACULTY ATTENDED FOR
SEMINAR**

S.NO	NAME	DESIGNATION	DEPT
1	DR KPNV SATYA SREE	PROFESSOR	CSE
2	KVM MAHESH KUMAR	ASSO. PROF	CSE
3	CH NIHARIKA	ASST. PROF	CSE
4	S MOUNIKA	ASST. PROF	CSE
5	V RASHMI	ASST. PROF	CSE

ACHIEVEMENTS

- **FACULTY ATTENDED SEMINAR ON
  DIGITIZATION**

ATTENDED SEMINAR ON DIGITIZATION VS DIGITAL BASED ANALYSIS

DIGITAL ANALYSIS

Data analysis is a process of inspecting, cleansing, transforming,
and modeling data with the goal of discovering useful information, informing
conclusions, and supporting decision-making. Data analysis has multiple facets
and approaches, encompassing diverse techniques under a variety of names, while
being used in different business, science, and social science domains.

THE PROCESS OF DATA ANALYSIS:

Analysis refers to breaking a whole into its separate components for
individual examination. Data analysis is a processfor obtaining raw data
and converting it into information useful for decision-making by users.
Data is collected and analyzed to answer questions, test hypotheses or
disprove theories

DIGITIZATION:

Digitization is of crucial importance to data processing, storage and
transmission, because it "allows information of all kinds in all formats to be
carried with the same efficiency and also intermingled Unlike analog data, which
typically suffers some loss of quality each time it is copied or transmitted, digital
data can, in theory, be propagated indefinitely with absolutely no degradation.

CO-ORDINATORS

Editor-in-Chief
B.S Vara Prasad
Asst.Professor CSE

Associate Editor
R.Mercy Virginia
Asst.Professor CSE

Manuscript Editor
Mrs.S.Aswini
Asst.Professor S&H

Technical Editor
Mr.M.Sambasivarao Rao
Asst.Professor CSE

GATE might be compulsory for engineering students as exit exam

INTERESTINGLY, FOR CANDIDATES WHO HAVE COMPLETED THEIR ENGINEERING COURSE, THE DEGREE CERTIFICATE WILL BE AWARDED ONLY AFTER THEY CLEAR GATE, SAID AICTE OFFICIALS.

THE MAIN AIM OF THE PROPOSAL TO CONDUCT THE EXIT EXAM IS:

- Skewed Standards Of India's Engineering Education
- Improve Employability: Only 20% – 30% of engineering graduates in India are able to get a job, in spite of the fact that roughly, seven lakh engineering students graduate annually from across 3,000 registered technical institutes (approximately)
- Fix the lack of requisite skill set amongst engineering graduates to make them job read

CONDUCTING THE EXIT EXAM FOR ENGINEERING GRADUATES WILL SERVE A DUAL MOTIVE:

- AICTE can then check the engineering student's skills, aptitude, critical thinking, besides the theory
- Will give AICTE a feedback on the standards & teaching methodology of engineering institutes in India
- AICTE will be able to come up with remedial measures for the betterment of the education quality in each of these institutes like teacher training etc..